

# Line sharing modem

## LD-01, LD-01 BP

- ☰ Create long distance multi-drop RS-232 networks
  - RS-232 line splitter functionality
  - Line drive up to 18 km (11.18 mi)
  - Repeater of Westermo W1 interface
- ☰ Easy to install and use
  - Transparent between all channels
  - Purpose built DIN rail casing with integral clip
  - D-sub or screw terminal
- ☰ Designed for use in harsh industrial applications
  - AC or DC power options
  - Total galvanic isolation & transient protection
  - Industrial EMC, shock and vibration approval
- ☰ Flexible solution for many applications
  - Three RS-232 or W1 configurable interfaces
  - Bypass relay as option
  - Half- and full duplex bus mode (Y/V mode)



The LD-01 is a four port line split modem allowing RS-232 systems to be connected in multidrop applications over long distance. The interface can be either standard RS-232 or W1, a balanced current loop allowing transmission distances up to 18 km (11.18 mi). In multidrop applications the LD-01 acts as a repeater on the W1 interface.

DIP switches are used for configuration options which make the unit simple to install. The serial interface is connected through a standard 9 pol D-sub or terminal block with screw connectors.

The LD-01 is designed for use in heavy duty industrial applications. The different power options, galvanic isolation, transient protection guarantees communication in the worst environments. The LD-01 has been tested to meet many EMC, isolation, vibration and shock standards, all to the highest levels suitable for heavy industrial environments.

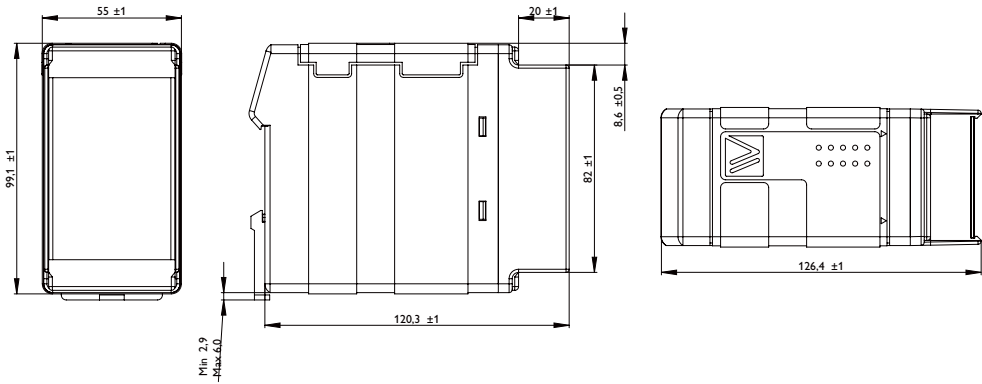
The design of the line split modem makes the LD-01 suitable for a variety of applications with various speed and data bit options. The V and Y mode emulate half or full duplex communication between master and slaves and a bypass board can be fitted to ensure networks can't be broken by power failure at a single point.

### Ordering Information

Art.no	Description
3154-1001	LD-01 DC, Line split 4 channels, RS-232 alt. W1, DIN model, 12–36 VDC.
3154-1002	LD-01BP DC, Line split 4 channels, with by-pass-function, RS-232 alt.W1, DIN model, 12–36 VDC.
3154-1005	LD-01BP DC 36 – 55 V, Line split 4 channels, with by-pass-function, RS-232 alt.W1, DIN model.
3154-1101	LD-01 AC, Line split 4 channels, RS-232 alt. W1, DIN model, 230 VAC.
3154-1102	LD-01BP AC, Line split 4 channels, with by-pass-function, RS-232 alt.W1, DIN model, 230 VAC.
3154-1110	LD-01 115 V, Line split 4 channels, RS-232 alt. W1, DIN model, 115 VAC.
3154-1112	LD-01BP 115 V, Line split 4 channels, RS-232 alt. W1, DIN model, 115 VAC.

# Specifications LD-01, LD-01 BP

## Dimensional drawing



Dimension W x H x D 55 x 100 x 132 mm (2.16 x 3.93 x 5.19 in)  
 Weight 0.4 kg  
 Degree of protection IP 20

### Power

Operating voltage	LD-01/BP AC	LD-01/BP 115 AC	LD-01/BP DC	LD-01/BP 36 – 55 DC
	207-264 VAC	103-132 VAC	12-36 VDC	36 – 55 VDC
Rated current	20 mA @ 230 VAC	40 mA @ 115 VAC	80 mA @ 24 VDC	55 mA @ 36 VDC

### Interfaces

RS-232	1 x up to 38.4 kbit/s
10 mA tri-state balanced current loop	1 x up to 38.4 kbit/s

### Temperature

Operating	+5 to +50°C (+41 to +122°F)
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### Agency approvals and standards compliance

EMC	SS-EN 50081-1/SS-EN 55022 (1992): Class B
	SS-EN 50082-2/SS-EN 61000-4-2 (1995): 4 kV CD, 8 kV AD
	SS-EN 50082-2/SS-EN 61000-4-4 (1995): 4 kV power; 2 kV signals
	SS-EN 50082-2/SS-EN 50140 (1993): 10 V/m
	SS-EN 50082-1/SS-IEC 801-3 (1984): 3 V/m
Safety	EN 60950 (1992)